

Government Cut (Miami Harbor Jetties), Miami, Florida
Dredging Records

<u>Date(s)</u>	<u>Construction and Rehabilitation History</u>
1902	Government Cut was opened through Miami Beach peninsula in 1902, creating a channel 18 ft deep (MLW) and a north jetty to protect the inlet. The north jetty was 2,300 ft long.
1907	South jetty was constructed, 2,200 ft long and 1,000 ft south of the north jetty. The channel width was expanded to 100 ft.
1912	North and south jetties were lengthened, channel depth was increased to 20 ft MLW, and outer channel width was expanded to 300 ft.
1925	Interior channel width was increased to 200 ft, and channel depth was increased to 25 ft.
1927	Repairs were made to the north jetty and revetment. The jetty section was rebuilt to original dimensions with an elevation of +6 ft mlw, a crest width of 10 ft, and the side slopes were 1V:1.5H below mlw and 1V:1H above mlw. A total of 3,450 tons of granite was placed on the inner 700 ft of the jetty, and approximately 100 tons was recovered and used over the same section. Total cost of the repair was \$30,600. These repairs were required because the hurricane of September 1926 (passed over Miami) which resulted in several jetty breaches extending below mlw.
1928	The north and south jetties were extended seaward 1,350 and 600 ft, respectively. The jetty section consisted of a 5-ft crest width at +5 ft mlw with 1V:2H side slopes above mlw and 1V:1.5H below mlw. A total of 9,500 tons of Florida limestone was used as core stone and 37,300 tons of granite as capstone. Total cost of the extensions was \$208,000. A December survey of the original jetties (excluding the extensions) showed crest elevations ranging from +4 to -2 ft mlw. Approximately 100 ft of the old seaward ends were below mlw.
1929	The jetties and north revetment were repaired. A total of 1,600 ft of the north jetty, 700 ft from its inner end, and 2,200 ft of the south jetty (exclusive of the 1928 extension) was repaired with granite stone to a crest width of 10 ft, an elevation of +5 ft mlw, and 1V:1H side slopes. Stone weighing 13,800 and 18,900 tons was used on the north and south jetties, respectively. The total cost of jetty repairs was \$181,000.
1931-1932	Both jetties were surveyed in 1931 and 1932. Centerline elevations for the north jetty were from +9.5 to +4 ft mlw on the inner 2,300 ft and from -3 to +4.5 ft mlw on the outer 1,350 ft. (This section was damaged by storm waves during the survey period.) Centerline elevations for the south jetty varied from +4 to +8 ft mlw.
1933-1934	Based on the previous survey of the jetties, repairs were made to bring the jetties up to the design section. The crest width was 10 ft, the crest elevation was +5 ft mlw, the side slopes were 1V:2H, and the granite stone varied from 2 to 10 tons. Several sections on the north jetty, totaling 2,100 ft, were repaired and a 700-ft section was repaired on the south jetty. A total of 45,000 tons of stone was placed, and additional stone was reset (200 pieces) at a total cost of \$232,000.

- 1950 A historical synopsis written at this time (which did not describe the condition of the jetties) stated that "the structure has served the purpose for which it was originally constructed." Repairs were made to the north revetment in 1948.
- 1983 At the shoreward end of the north jetty, a 1,200-ft-long section was made sand tight in conjunction with beach renourishment north of the jetty. The modification required raising the crest elevation, rebuilding damaged sections, and chinking voids with small stone (no details). This modification would inhibit the loss of sand placed adjacent to the jetty during, and subsequent to, beach nourishment. The cost of the modifications was \$608,000.
- 1985 A 38-ft-deep by 400-ft-wide channel was maintained between the jetties. Except for the sand-tightened portion (1983), the jetties have not been repaired since 1934 and, although in poor condition, are still functioning properly.
- 1995 Channel was deepened and harbor was expanded. Channel project depth was increased to 44 and 42 feet on the outside and inside, respectively, and a channel was cut in the southern area of the harbor .